```
111111111
                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                   LLL
                    LLL
                                                                   TTTTTTTTTTTTT
                                                                                   LLL
                                             888
888
888
888
                                 888
                                                  RRR
LLL
                       III
                                                              RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 888
888
                                                  RRR
                                                              RRR
                       H
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRR
                                                              RRR
                       III
LLL
                                                                         TIT
                                                                                    LLL
                                 888
                                             BBB
                                                              RRR
                                                  RRR
                       III
LLL
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                       III
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 III
                                                  RRRRRRRRRRR
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 88888888888
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 888
                                                  RRR
                                                        RRR
                                             BBB
LLL
                       111
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                                                  RRR
                                                        RRR
                       111
LLL
                                                                         TIT
                                                                                    LLL
                       ĬĬĬ
                                 888
                                                  RRR
                                                        RRR
LLL
                                             BBB
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
LLL
                       111
                                 BBB
                                             BBB
                                                  RRR
                                                           RRR
                                                                         TIT
                                                                                    LLL
                                 LLLLLLLLLLLLLLL
                    1111111111
                                                  RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLL
LLLLLLLLLLLLLL
                    RRR
                                                              RRR
                                                                         TTT
                                                                                   LLLLLLLLLLLLLL
RRR
                                                              RRR
                    111111111
                                                                         III
                                                                                   LLLLLLLLLLLLLL
```

Sy

FILEID**LIBSTATVM

	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	\$	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	AAAAA AA AA AA AA AA AA AA AA AA AA AAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	VV	
	\$						

LII

MM MMMM MMMM MM MM MM MM MM MM MM MM

Page (1)

```
0001
                0002
                0004
                0005
                0006
0007
                0008
                0009
                0010
10
                0011
11
                0012
12
14
                0014
15
                0015
                0016
16
17
                0017
18
                0018
19
                0019
20
                0020
222222222233333
                0021
                0022
                0024
                0025
                0026
0027
                0028
                0029
                0030
                0031
                0032
34
35
36
37
                0034
                0035
                0036
                0037
38
39
                0038
                0039
40
                0040
41
                0041
                0042
42
43
44
45
46
                0044
                0045
                0046
47
                0047
```

ŠÓ

```
O MODULE LIBSSTAT_VM (
O IDENT = '1-003'
                                                                      ! Gather statistics from LIB$VM
! File: LIBSTATVM.B32
                         ) =
  BEGIN
1 1 *
```

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FACILITY: General Library

ABSTRACT:

1 1 *

.

This module returns LIB\$GET_VM statistics to the user. These are the number of calls to GET and FREE, and the the number of bytes gotten but not yet freed.

ENVIRONMENT: User mode, AST reentrant.

AUTHOR: John Sauter, CREATION DATE: 26-0CT-1979

MODIFIED BY:

1-001 - Original. JBS 28-001-1979
1-002 - Don't use LIBSSYS_FAO, since it isn't in the sharable library. JBS 29-0CT-1979

! 1-003 - Correct a comment. JBS 30-NOV-1979

1 !<BLF/PAGE>

0048 1

```
55555555666666
                               SWITCHES:
                               SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                    0058
                                  LINKAGES:
                    0060
                    0061
                                           NONE
                    0062
                                  TABLE OF CONTENTS:
                   0064
0065
0066
0067
 66
67
                               FORWARD ROUTINE
                                     LIBSSHOW_VM,
LIBSSTAT_VM;
 689077777777777890
                                                                                                      ! Show VM statistics as text ! Show VM statistics in binary
                    0069
                   0070
0071
0072
0073
0074
                                  INCLUDE FILES:
                               REQUIRE 'RTLIN:RTLPSECT':
                                                                                                      ! DECLARE_PSECTS macro
                   0169
0170
                            1 LIBRARY 'RTLSTARLE':
                                                                                                      ! System symbols
                    0171
                   0172
0173
0174
0175
0176
0177
                                  EQUATED SYMBOLS:
 1 LITERAL
                                    K_GET = 1,
K_FREE = 2,
K_IN_USE = 3,
MAX_CODE = 3,
K_MAX_STR_LEN = 255;
                                                                                                         Number of calls to LIB$GET_VM
Number of calls to LIB$FREE_VM
                   0178
0179
0180
0181
                                                                                                      ! Number of bytes in use
! Max codes for reporting
! Max FAO string length
                   0182
0183
0184
0185
0186
0187
0188
0189
                                  PSECTS
                               DECLARE_PSECTS (LIB);
                                                                                                      ! Define psects
                                  OWN STORAGE:
                                           NONE
                   0191
                   0192
0193
                                  EXTERNAL REFERENCES:
100
101
                   0194
102
                   0195
                               EXTERNAL ROUTINE LIBSPUT_OUTPUT;
                   0196
0197
                                                                                                      ! Sends string to SYS$OUTPUT
104
105
                   0198
                   0199
                               The following are the statistics cells maintained by LIB$GET_VM.
106
107
                    0200
108
                    0201
109
                   0202
                           1 EXTERNAL
```

E 7 16-Sep-1984 01:17:05 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:39:25 CLIBRTL.SRCJLIBSTATVM.B32;1 (2) Page LIB\$\$GL_GETVM_C, LIB\$\$GL_FREVM_C, LIB\$\$GL_VMINUSE; 0203 0204 0205 0206 0207 0208 0209 0211 0212 0213 ! Number of calls to LIB\$GET_VM ! Number of calls to LIB\$FREE_VM ! Number of bytes allocated but not freed 112 114 The following are the error codes used in this module. 116 118 EXTERNAL LITERAL LIB\$_INVARG; ! Invalid argument error condition 120

```
7
LIBSSTAT_VM
                                                                                                     16-Sep-1984 01:17:05
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                   Page
1-003
                                                                                                     14-Sep-1984 12:39:25
                                                                                                                                           [LIBRTL.SRC]LIBSTATVM.B32:1
                                                                                                                                                                                                            (3)
                         0214
0215
0216
0217
0218
0219
0220
0221
0222
                                      GLOBAL ROUTINE LIB$SHOW_VM (
                                                                                                                    Show VM statistics
    1234567
1234567
12390
1334567
137
                                                  CODE,
ACTION
                                                                                                                    Code for what to show
                                                                                                                    Action routine to print text
                                                  USERARG
                                                                                                                    User argument for action routine
                                            ) =
                                        FUNCTIONAL DESCRIPTION:
                                                  LIB$SHOW_VM is used to obtain the accumulated statistics from calls to LIB$GET_VM and LIB$SHOW_VM. In the default mode, with neither CODE nor ACTION specified in the call, the routine will output to $YS$OUTPUT a line giving the following
                         0224
                                                  three items of information:
                         0228
0229
                                         999 calls to LIB$GET_VM, 999 calls to LIB$FREE_VM, 999 bytes still allocated
    138
                         0230
    139
                                                  Optionally, only one of the three statistics can be output to SYS$OUTPUT and/or the line of information can be passed to a user-specified "action routine", for processing different from
    140
    141
    142
                         0234
                                                  the default.
                         0235
                         0236
0237
    144
                                         CALLING SEQUENCE:
    145
                         0238
0239
    146
                                                  status.wlc.v = LIB$SHOW_VM ([[[code.rl.r],
    147
                                                                                                     action.flc.rp], userarg.xx.x])
    148
                         0240
                         0241
0242
0243
    149
                                        FORMAL PARAMETERS:
    150
    151
                                                               - (Optional) Specifies the particular statistic desired.
                                                  code
                                                                 If given, it must be one of the following values:

1 = Number of calls to LIB$GET_VM

2 = Number of calls to LIB$FREE_VM

3 = Number of bytes allocated by LIB$GET_VM but not yet deallocated by LIB$FREE_VM.

If omitted or zero, all three statistics will be returned
                         0244
0245
0246
0247
    152
    153
    154
    155
                         0248
0249
0250
    156
    157
    158
                                                                  on one line.
    159
                         0251
                         0252
    160
                                                  action
    161
                                                  userarg - (Optional) These two parameters allow the user to direct
                                                                  the output of LIB$SHOW VM somewhere other than SYS$OUTPUT. If "action" is given, it is the address of a function procedure to call. The arguments to this function are described below. The function should return either
    162
                         0254
    163
                         0255
                         0256
0257
0258
    164
    165
                                                                  a success of failure condition value, which will be
    166
                         0259
    167
                                                                  returned as the value of LIB$SHOW_VM.
                         0260
    168
                         0261
    169
                                                  CALLING SEQUENCE OF ACTION ROUTINE:
                         0262
    170
    171
                                                               status.wlc.v = (action) (out_string.rt.dx [, userarg.rl.v])
                         0264
    172
    173
                                                                                        - A descriptor of a string
                                                               out_string
                         0266
0267
0268
                                                                                           containing the statistics desired.
    175
                                                                                            is formatted exactly as it would be if
    176
                                                                                            output to SYS$OUTPUT. The leading character
    177
                         0269
                                                                                            is blank.
                         0270
```

1-0

```
LIBSSTAT_VM
                                                                                           16-Sep-1984 01:17:05
14-Sep-1984 12:39:25
                                                                                                                             VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBSTATVM.B32;1
                                                                                                                                                                                        (3)
                                                                                                                                                                                 Page
1-003
                                                                               - If "userarg" is passed to LIB$SHOW_VM,
it is passed directly on to the action
routine. The 32-bit value in LIB$SHOW_VM's
argument list is passed to the action
routine without interpretation.
                                                         userarq
    180
    181
    182
                       0275
    184
    185
                                     IMPLICIT INPUTS:
    186
                       0279
    187
                                             The statistics cells maintained by LIB$VM.
                       0280
    188
    189
                       0281
                                     IMPLICIT OUTPUTS:
                      0282
0283
    190
    191
                                             NONE
   192
                       0284
                       0285
                                     COMPLETION CODES:
                      0286
0287
    194
    195
                                             SS$_NORMAL
                                                                    - Successful completion.
    196
197
                                                                    - Invalid arguments. This can be caused by an invalid value for "code".
                       0288
                                             LIBS_INVARG
                      0289
                                             Other codes as may be returned by LIB$PUT_OUTPUT or the user's
    198
199
                       0290
                       0291
                                             action routine.
                      0292
0293
   SIDE EFFECTS:
                      0294
0295
0296
0297
0298
0299
                                             NONE
                              1 !--
                                       BEGIN
                      0301
                                       BUILTIN
                      0302
                                             NULLPARAMETER;
                      0303
                      0304
                                       LOCAL STATUS,
                      0305
                                                                                                         Returned condition values
                      0306
                                             TEMPCODE,
                                                                                                         Local value of CODE
                                             OUT_BUF : VECTOR [K_MAX_STR_LEN, BYTE],
OUT_DESC : BLOCK [8, BYTE],
FAO_DESC : BLOCK [8, BYTE],
                      0307
                                                                                                         FAO result string
                      0308
                                                                                                         Output string descriptor
                      0309
                                                                                                         Input string for FAO
                      0310
                                             FAO_PRMLIST : VECTOR [3, LONG]:
                                                                                                       ! Input parameter list for FAO
                      0311
                      0312
   Set up out_string descriptor
                      0314
                                       OUT_DESC [DSC$W_LENGTH] = K_MAX_STR_LEN;
OUT_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
OUT_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
OUT_DESC [DSC$A_POINTER] = OUT_BUF [0];
                      0316
0317
                      0318
0319
0320
                                    Now "output" the result, depending on the value of CODE.
                      0321
0322
0323
                                        FAO_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
                                        FAO_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
                       0324
                      0325
                                        IF (NULLPARAMETER (1)) THEN TEMPCODE = 0 ELSE TEMPCODE = ..CODE;
    234
                       0326
    235
                       0327
                                        CASE .TEMPCODE FROM 0 TO MAX_CODE OF
```

! 'userarg' not given?

! Call "action" without "userarg"

288

289

291

292

0380

0381

0382 0383

0384

IF (NULLPARAMETER (3))

 $STATUS = (.ACTION) (OUT_DESC)$

THEN

ELSE

Page

04

00060

00063

ĎŎ

MOVL

MOVL

L	18	\$5	T	AT	_VM
1	-0	003			_

				16-Sep-19 14-Sep-19	84 01:17 84 12:39	:05 VAX-11 Bliss-32 V4.0-742 :25 [LIBRTL.SRC]LIBSTATVM.B32;1	Page 8 (3)
08	AE		64 DO 2B 11	00067	MOVL	LIB\$\$GL_VMINUSE, FAO_PRMLIST+8	; 0338
10	AE	FF41	2B 11 CF 9E 18 BO	0006B 0006D 6\$: 00073	BRB MOVAB	P.AAB, FAO DESC+4 #24, FAO DESC	: 0340 : 0345
0Č	AE 6E		62 DO	00077	MOVW Movl	LIB\$\$GL_GETVM_C, FAO_PRMLIST	: 0346 : 0347
10	AE	FF4A	10 11 CF 9E	0007A 0007C 7\$:	BRB MOVAB	P.AAC, FAO_DESC+4	. 0349 . 0354
10 00	AE AE 6E		19 B0	00082	MOVU MOVL	#25, FAO_DESC LIB\$\$GL_FREVM_C, FAO_PRMLIST	: 0355 : 0356
10	AE	f F 5 7	0D 11 CF 9E	00086 00089 0008B 8\$:	BRB	95	: 0358
10 00	AE 6E	777	1A B0	00091	MOVAB MOVW	P.AAD, FAO DESC+4 #26, FAO DESC	: 0363 : 0364
	0t		64 DO 5E DD	00095 00098 9\$:	MOVL Pushl	LIB\$\$GL_VMINUSE, FAO_PRMLIST SP	: 0365 : 0367
		18 10	SE DD AE 9F AE 9F	0009A 0009D	PUSHAB PUSHAB	OUT_DESC OUT_DESC	•
000000006	00	18	AE 9F	000A3 000A3	PUSHAB CALLS	OUT_DESC FAO_DESC #4, SYS\$FAOL	
00000000	31 02		50 E9	000AA 10\$:	BLBC	STATUS, 155	: 0374
	02		6C 91 05 1F	000AD 000BC	CMPB BLSSU	(AP), #2 11\$: 0376
		08	AC D5 OB 12	000B2 000B5	TSTL BNEQ	8(AP) 12\$:
0000000G	00	14	AE 9F	000B7 11\$: 000BA	PUSHAB CALLS	OUT_DESC #1, LIB\$PUT_OUTPUT	0378
	03		6C 91	000C1 000C2 12\$:	RET CMPB	(AP), #3	0381
	00	4.6	05 1 F	000C5	BLSSU	13\$; 0361
		OC	08 12	000C7 000CA	TSTL BNEQ	12(AP) 14 \$	
08	ВС	14		000CC 13\$:	PUSHAB CALLS	OUT_DESC #1, @ACTION	0383
		0 Ç	04	000D3 000D4 14\$:	RET PUSHL	USERARG	0385
08	ВС	18	AE 9F	000D7 000DA	PUSHAB	OUT_DESC	:
00	DL			000DE 15\$:	CALLS RET	#2, action	0388

; Routine Size: 223 bytes, Routine Base: _LIB\$CODE + 009E

; 297 0389 1

Page

```
GLOBAL ROUTINE LIB$STAT_VM (
                  0390
                                                                                                   Fetch LIB$VM statistics Which ore to fetch
                  0391
                                         CODE,
                  0392
0393
301
302
303
304
306
307
308
310
311
                                                                                                   Where to put the value
                  0394
                  0395
                                FUNCTIONAL DESCRIPTION:
                  0397
                  0398
                                         LIB$STAT_VM returns to its caller one of three available
                  0399
                                         statistics. Unlike LIB$SHOW_VM which formats the values
                  0400
                                         for output, LIB$STAT_VM returns the value to a location
                  0401
                                         specified as a parameter.
                  0402
312
313
314
315
316
317
                                        Only one of the three statistics can be returned by one call to LIB$STAT_VM. "code" must be one of the three values described for LIB$SHOW_VM. A "code" of zero is invalid.
                  0404
                  0405
                  0406
0407
                                CALLING SEQUENCE:
                  0408
318
                  0409
                                         status.wic.v = LIB$STAT_VM (code.rl.r, value.wl.r)
0410
                  0411
                                FORMAL PARAMETERS:
                  0412
                                                    - Specifies which statistic is to be returned. Allowed
                                         code
                  0414
                                                       values are:
                                                               1 = Number of calls to LIB$GET_VM
2 = Number of calls to LIB$FREE_VM
                                                      2 = Number of calls to LIBSFREE_vm
3 = Number of bytes allocated by LIB$GET_VM but not yet freed by LIB$FREE_VM.

Note that it is invalid to omit 'code' or to give
                  0416
                  0418
                  0419
                  0420
0421
0423
0424
0425
0426
0427
0428
0429
0431
                                         value
                                                    - The location to store the result. All values are
                                                       longword integers.
                                IMPLICIT INPUTS:
                                         The statistics cells maintained by LIBSVM.
                                IMPLICIT OUTPUTS:
                                         NONE
                                COMPLETION CODES:
                  0435
                                         SS$ NORMAL
                                                               - Successful completion
                  0436
0437
                                         LIBS_INVARG
                                                               - Invalid argument.
                  0438
                                SIDE EFFECTS:
                  0439
                  0440
                                         NONE
                  0441
                  0442
                          1!--
352
353
                  0444
                                   BEGIN
354
355
                  0445
                  0446
                                   BUILTIN
```

```
LIB$STAT_VM
1-003
                                                                        16-Sep-1984 01:17:05
14-Sep-1984 12:39:25
                                                                                                   VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBSTATVM.832;1
                                                                                                                                            Page 10 (4)
                                    NULLPARAMETER:
   LOCAL
STATUS;
                                                                                 ! Returned status condition
                             Now return appropriate statistic determined by CODE
                               CASE CODE FROM 1 TO MAX_CODE OF
                                    [K_GET] :
                                                                                 ! Calls to LIB$GET_VM
                                        .VALUE = .LIB$$GL_GETVM_C;
                                    [K_FREE] :
                                                                                 ! Calls to LIB$FREE_VM
                                        .VALUE = .LIB$$GL_FREVM_C;
                                    [K_IN_USE] :
                                                                                 ! Bytes outstanding
                                         .VALUE = .LIB$$GL_VMINUSE;
                  0467
                  0468
                                    [OUTRANGE] :
                  0469
                                        RETURN (LIBS_INVARG);
                  0470
   380
                  0471
                  0472
0473
   381
                               RETURN (SS$_NORMAL);
                                                                                 Exit
                                                                                 ! End of routine LIB$STAT_VM
   382
                               END:
                                                              0000 00000
                                                                                    .ENTRY
                                                                                                                                                0390
                                                                                            LIB$STAT_VM, Save nothing
                         0022
                                                           BC CF 00002
                                                                                            acode, MT, M2
                                                                                   CASEL
                                                                                                                                                0456
                                         0018
                                                                   00007 18:
                                                         000E
                                                                                             25-1$.-
                                                                                    .WORD
                                                                                            35-15,-
                                                                                            45-15
                                            50 00000000G
                                                           8F
                                                                DO 0000D
                                                                                                                                                0469
                                                                                    MOVL
                                                                                            #LIB$_INVARG, RO
                                                                04 00014
                                                                                    RET
                                            BC 0000000G
                                                                DO 00015 2$:
                                                                                   MOVL
                                                                                            LIB$$GL_GETVM_C, aVALUE
                                                                                                                                                0460
                                                                11 0001b
                                                                                   BRB
                                                                00 0001F 3$:
                                      08
                                            BC 0000000G
                                                                                            LIB$$GL_FREVM_C, aVALUE
                                                                                                                                                0463
                                                                                    MOVL
                                                           08
00
01
                                                                                   BRB
                                                                DO 00029 45:
DO 00031 55:
                                                                                                                                                0466
0472
0473
                                      08
                                               0000000G
                                                                                            LIB$$GL_VMINUSE, aVALUE
                                                                                    MOVL
                                                                                    MOVL
                                                                                            #1, R0
                                                                04 00034
                                                                                    RET
: Routine Size: 53 bytes.
                                 Routine Base: _LIB$CODE + 017D
   383
384
385
                  0475 1 END
                                                                                 !End of module LIB$STAT_VM
```

0 ELUDOM

LIB Sym

PSE

Pha

Ini

Com

Pas Sym Pas Sym Pse Cro

Ass

The 267

The 55 p

Mac

_\$2

80

The

MAC

_LIB\$CODE

M 7 16-Sep-1984 01:17:05 14-Sep-1984 12:39:25

VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBSTATVM.B32;1

Page 11 (4)

PSECT SUMMARY

Name Bytes Attributes

434 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File Symbols ------ Pages Processing Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 10 0 581 00:00.7

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBSTATVM/OBJ=OBJ\$:LIBSTATVM MSRC\$:LIBSTATVM/UPDATE=(ENH\$:LIBSTATVM

Size: 276 code + 158 data bytes Run Time: 00:05.9

; Run Time: 00:05.9 ; Elapsed Time: 00:24.8 ; Lines/CPU Min: 4826 ; Lexemes/CPU-Min: 31902 ; Memory Used: 96 pages ; Compilation Complete **F

0210 AH-BT13A-SE

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